

Name _____ Period _____

Seed and Plant Needs
Using EXCEL

1. Based on our class discussions, which of the following do you think seeds need to germinate?

- a. light b. water c. both light and water

2. Based on your knowledge of plants, which of the following do you think plants need to grow?

- a. light b. water c. both light and water

3. Fill in the data below and use it to create a **table** and **graph** of your data using EXCEL (see direction sheet)

Day	Height (cm)		
	Light Only	Water Only	Both Light and Water
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

4. Based on your graphs, which of the following do seeds need to germinate?

- a. light b. water c. both light and water

5. Based on your graphs, which of the following do plants need to continue to grow?

- a. light b. water c. both light and water

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6. Give an **evidence based explanation** for your answers to questions 4 and 5.
Use complete sentences for each part.

- Make a claim:
 - Seeds need _____ to germinate.
 - Plants need _____ to continue to grow well.
- Give evidence using the height of each plant to support your answers by including examples of
 - Which seeds germinated within the first 5 days
 - Which seeds did not germinate within the first 5 days
 - Which plants grew at all within the first 10 days
 - Which plant grew the most after 14 days
- Give reasoning to summarize your findings:
 - Explain the roles of water and light in the germination of seeds and growth of plants